

AMENDMENTS TO THE CLAIMS

For the convenience of the Examiner, all claims have been presented whether or not an amendment has been made.

1. **(Canceled)**
2. **(Currently Amended)** The communication system of Claim + 5, wherein the processor determines the transmit power of the communication device based further upon cross-channel-coupling information for the first subscriber line.
3. **(Currently Amended)** The communication system of Claim + 5, further comprising a second communication device operating on the first subscriber line, wherein the second communication device resides at a subscriber premises coupled to the first subscriber line and the processor is further operable to determine the transmit power of the second communication device based upon the noise information.
4. **(Currently Amended)** The communication system of Claim + 5, wherein the first subscriber line and the second subscriber line each comprise a common binder group segment.

5. (Currently Amended) ~~The communication system of Claim 1, wherein:~~ A communication system for determining the transmit power of a communication device operating on a twisted pair subscriber line, comprising:

a communication server coupled to a first subscriber line and a second subscriber line, wherein:

the communication server comprises a communication device operable to communicate a signal using the first subscriber line;

the first subscriber line supports communication using a particular frequency spectrum; and

the communication device is operable to communicate the signal at a sub-frequency of the frequency spectrum and to receive noise information for the signal measured for the sub-frequency of the frequency spectrum [.] ;

a memory coupled to the communication server and storing the noise information for the first subscriber line; and

a processor coupled to the memory and operable to determine the transmit power of the communication device based upon the noise information.

6. (Original) The communication system of Claim 5, wherein the processor is further operable to determine the noise information of the first subscriber line for the frequency spectrum based upon the noise information of the signal measured for the sub-frequency of the frequency spectrum.

7. (Currently Amended) The communication system of Claim 4 5, wherein the communication device supports communicating data using a plurality of communication protocols and the processor is further operable to select a particular communication protocol based upon the determined transmit power of the communication device.

8. **(Original)** The communication system of Claim 7, wherein the selected communication protocol comprises one of Asymmetric Digital Subscriber Line or Symmetric Digital Subscriber Line.

9. **(Currently Amended)** The communication system of Claim 4 ~~5~~, wherein the processor is further operable to determine the data rate capacity of the first subscriber line using the determined transmit power of the communication device.

10. **(Canceled)**

11. **(Currently Amended)** The method of Claim 40 15, wherein the step of determining comprises determining the transmit power of the communication device proportional to the noise information and inversely proportional to the cross-channel-coupling information.

12. **(Currently Amended)** The method of Claim 40 15, wherein the communication device is associated with a communication server coupled to the subscriber line.

13. **(Currently Amended)** The method of Claim 40 15, wherein the communication device is associated with a subscriber premises coupled to the subscriber line.

14. **(Currently Amended)** The method of Claim 40 15, wherein the subscriber line comprises a first subscriber line, and the cross-channel-coupling information is further associated with a second subscriber line.

15. (Currently Amended) ~~The method of Claim 10, wherein:~~ **A method for determining the transmit power of a communication device operating on a twisted pair subscriber line, comprising:**

storing noise information for a subscriber line, wherein the subscriber line supports communication using a particular frequency spectrum; and

storing cross-channel-coupling information for the subscriber line; and

~~the step of determining the transmit power of the communication device comprises~~ determining the transmit power of the **a** communication device at a sub-frequency of the frequency spectrum, **wherein the communication device operates on the subscriber line and the determination is based upon the noise information and the cross-channel-coupling information.**

16. (Currently Amended) ~~The method of Claim 10,~~ **A method for determining the transmit power of a communication device operating on a twisted pair subscriber line, comprising:**

communicating a signal over a subscriber line, wherein:

the subscriber line supports communication using a particular frequency spectrum; **and**, ~~the method further comprising:~~

~~communicating a signal~~ **the signal is communicated** at a sub-frequency of the frequency spectrum;

measuring noise information of the signal for the sub-frequency of the frequency spectrum; ~~and~~

determining the noise information for the frequency spectrum based upon the noise information of the signal measured for the sub-frequency of the frequency spectrum [1.];

storing the noise information for the subscriber line;

storing cross-channel-coupling information for the subscriber line; and

determining the transmit power of a communication device operating on the subscriber line based upon the noise information and the cross-channel-coupling information.

17. (Currently Amended) The method of Claim 10 ~~15~~, wherein the communication device supports communicating data using a plurality of communication protocols and further comprising selecting a particular communication protocol based upon the determined transmit power of the communication device.

18. (Original) The method of Claim 17, wherein the selected communication protocol comprises one of Asymmetric Digital Subscriber Line or Symmetric Digital Subscriber Line.

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19. **(Currently Amended)** The method of Claim ~~10~~ **15**, further comprising determining the data rate capacity of the subscriber line using the determined transmit power of the communication device.

20. **(Canceled)**

21. **(Currently Amended)** The communication facility of Claim ~~20~~ 24, wherein the processor determines the transmit power of the communication device proportional to the noise information and inversely proportional to the cross-channel-coupling information.

22. **(Currently Amended)** The communication facility of Claim ~~20~~ 24, further comprising a second communication device operating on the first subscriber line, wherein the second communication device is associated with a subscriber premises coupled to the first subscriber line and the processor is further operable to determine the transmit power of the second communication device based upon the noise information and the cross-channel-coupling information.

23. **(Currently Amended)** The communication facility of Claim ~~20~~ 24, wherein the first subscriber line and a second subscriber line each comprise a common binder group segment, and the cross-channel-coupling information is further associated with the second subscriber.

24. **(Currently Amended)** ~~The communication facility of Claim 20, wherein:~~ **A communication facility for determining the transmit power of a communication device operating on a twisted pair subscriber line, comprising:**

a memory storing noise information and cross-channel-coupling information for a first subscriber line, wherein the first subscriber line supports communication using a particular frequency spectrum; and

a processor coupled to the memory and operable to determine the transmit power of a communication device operating on the first subscriber line based upon the noise information and the cross-channel-coupling information, wherein:

the communication device is operable to communicate a signal at a sub-frequency of the frequency spectrum and to receive noise information for the signal measured for the sub-frequency of the frequency spectrum.

25. **(Original)** The communication facility of Claim 24, wherein the processor is further operable to determine the noise information of the first subscriber line for the frequency spectrum based upon the noise information of the signal measured for the sub-frequency of the frequency spectrum.

26. **(Currently Amended)** The communication facility of Claim 20 ~~24~~, wherein the communication device supports communicating data using a plurality of communication protocols and the processor is further operable to select a particular communication protocol based upon the determined transmit power of the communication device.

27. **(Original)** The communication facility of Claim 26, wherein the selected communication protocol comprises one of Asymmetric Digital Subscriber Line or Symmetric Digital Subscriber Line.

28. **(Currently Amended)** The communication facility of Claim 20 24, wherein the processor is further operable to determine the data rate capacity of the first subscriber line using the determined transmit power of the communication device.

29. **(Canceled)**

30. **(Currently Amended)** The method of Claim 29 35, further comprising storing cross-channel-coupling information associated with the first subscriber line and a second subscriber line, wherein determining the transmit power comprises determining the transmit power based further upon the cross-channel-coupling information.

31. **(Original)** The method of Claim 30, wherein the step of determining comprises determining the transmit power of the communication device proportional to the noise information and inversely proportional to the cross-channel-coupling information.

32. **(Currently Amended)** The method of Claim 29 35, wherein the communication device is associated with a communication server coupled to the first subscriber line.

33. **(Currently Amended)** The method of Claim 29 35, wherein the communication device is associated with a subscriber premises coupled to the first subscriber line.

34. **(Original)** The method of Claim 30, wherein the first subscriber line and the second subscriber line each comprise a common binder group segment.

35. (Currently Amended) ~~The method of Claim 29, wherein:~~ **A method for determining the transmit power of a communication device operating on a twisted pair subscriber line, comprising:**

storing noise information for a first subscriber line that ~~the first subscriber line~~ supports communication using a particular frequency spectrum; and

~~the step of determining the transmit power of the communication device comprises~~ determining the transmit power of ~~the~~ **a** communication device at a sub-frequency of the frequency spectrum, **wherein the communication devices operates on the first subscriber line and the determination is based upon the noise information.**

36. (Currently Amended) ~~The method of Claim 29,~~ **A method for determining the transmit power of a communication device operating on a twisted pair subscriber line, comprising:**

communicating a signal over a first subscriber line, wherein the first subscriber line supports communication using a particular frequency spectrum; **and** ; ~~the method further comprising:~~

the signal is communicated ~~communicating a signal~~ at a sub-frequency of the frequency spectrum; measuring noise information of the signal for the sub-frequency of the frequency spectrum; and

determining the noise information of the first subscriber line for the frequency spectrum based upon the noise information of the signal measured for the sub-frequency of the frequency spectrum ~~[[.]]~~ ;

storing the noise information for the first subscriber line; and
determining the transmit power of a communication device operating on the first subscriber line based upon the noise information.

37. **(Currently Amended)** The method of Claim 29 35, wherein the communication device supports communicating data using a plurality of communication protocols and further comprising selecting a particular communication protocol based upon the determined transmit power of the communication device.

38. **(Original)** The method of Claim 37, wherein the selected communication protocol comprises one of Asymmetric Digital Subscriber Line or Symmetric Digital Subscriber Line.

39. **(Currently Amended)** The method of Claim 29 35, further comprising determining the data rate capacity of the first subscriber line using the determined transmit power of the communication device.

40. **(Currently Amended)** A communication facility for determining the transmit power of a communication device operating on a twisted pair subscriber line, comprising:

means for storing noise information and cross-channel-coupling information for a first subscriber line, wherein the first subscriber line supports communication using a particular frequency spectrum; and

means for determining the transmit power of a communication device operating on the first subscriber line based upon the noise information and the cross-channel-coupling information, wherein:

the communication device is operable to communicate a signal at a sub-frequency of the frequency spectrum and to receive noise information for the signal measured for the sub-frequency of the frequency spectrum.

41. (Currently Amended) A communication facility for determining the transmit power of a communication device operating on a twisted pair subscriber line, comprising:

means for storing noise information for a first subscriber line that supports communication using a particular frequency spectrum; and

means for determining the transmit power of a communication device at a sub-frequency of the frequency spectrum, wherein the communication devices operates operating on the first subscriber line and the determination is based upon the noise information.